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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/36267

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : E21B 43/10

US CL : 166/207,277,382

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 166/121,182,202,207,212,216,217,242.8,277,382,387

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

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## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3,785,193 A (KINLEY et al) 15 January 1974 (15.01.1974), see entire document, especially Figs. 1-3.	1,4,19,21
A	US 4,168,747 A (YOUNG) 25 September 1979 (25.09.1979), see entire document, especially Fig. 1.	7,8
A	US 5,957,195 A (BAILEY et al) 28 September 1999 (28.09.1999), see entire document, especially Figs. 2-3.	1

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

## \* Special categories of cited documents:

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Date of the actual completion of the international search

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